WASHINGTON STATE BUILDING CODE COUNCIL APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT TO THE WASHINGTON STATE BUILDING CODE

2012 Code Adoption Cycle

Log # 14-E05 (office use only)

1. State Building Code to be Amended:		
[] International Building Code	[X] State Energy	Code
[] International Existing Building Code	[] International	Mechanical Code
[] ICC ANSI A117.1 Accessibility Code	[] International	Fuel Gas Code
[] International Residential Code	[] NFPA 54 Na	tional Fuel Gas Code
[] International Fire Code	[] NFPA 58 Lio	quefied Petroleum Gas Code
[] Uniform Plumbing Code		
Section <u>R406.2 Option 4</u>	Page <u>R</u>	E-34
2. Applicant Name (Specific local government, orga	nization or individua	ıl):
Gary Nordeen, WSU Energy Program		
gang Norder Sr. Bldg. Sci	ence Spec.	2/3/14
Proponent	Title	Date
4. Designated Contact Person:		
Gary Nordeen	Sr. Building Science	Spec.
Name	Title	
Address: 905 Plum St SE		
Olympia, WA 98504-3165		
Olympia, WA 70304-3103		
Office Phone: (360) 956-2040		

der to co r amend	I deleted language. Insert any separate new sections in the appropria ontinue the established numbering system of the code. If more than of ment or more than one page is needed for reproducing the affected se pages may be attached. (Please indicate number of additional pages I	ne section is ection of the c
ode _W	SEC SectionR406.2	Page RE-34
	All heating and cooling system components installed inside the conditioned space. All combustion equipment shall be direct vent or sealed combustion. For forced air ducts: A maximum of 10 linear feet of return ducts and 5 linear feet of supply ducts may be located outside the conditioned space. All metallic ducts located outside the conditioned space and longitudinal joints sealed	
	with mastic. If flex ducts are used, they cannot contain splices. Flex duct connections must be made with nylon straps and installed using a plastic strapping tensioning tool. Ducts located outside the conditioned space must be insulated to R-8. Heated slab-on-grade floors with all components located inside the conditioned space.	
	Locating system components in conditioned crawl spaces and ductless heat pump systems are is not permitted under this option. Electric resistance heat is not permitted under this option. Direct combustion heating equipment with AFUE less than 80% is not permitted under this option. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and shall show the	

Log #	
C	(office use only)

Supporting Data for Statewide Amendment Proposals This information is required for all statewide amendment proposals. <u>Attach supporting documentation</u>, as necessary; incomplete proposals will not be accepted.

The SBCC requires supporting data on any amendment proposal to show:

- a. That it meets basic criteria See Part I to specify how this proposal meets the criteria for code amendment.
- b. The intended effect—See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
- c. The potential impacts or benefits on business—See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
- d. The potential impact on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.
- e. Economic costs and benefits Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on the construction industry, the user and/or public, the enforcement community, and operation and maintenance.

Part I	*	Background	information	on	amendmen

Code References: WSEC Title: Washingto	= -	ooes this amendment change other related codes?)
		_ Date: February 3, 2014
Topolicii. <u>Gary Nordeen</u>	1 none. <u>500-750-2040</u> _	_ Date. <u>reordary 3, 2014</u>
NOTE: State-wide and emergency state-very please indicate the pertinent rationale for the (1) The amendment is needed to a (2) The amendment is needed to a (3) The amendment is needed for (4) The amendment is needed to a (5) The amendment corrects error	he proposed amendment by sele- address a critical life/safety need address a specific state policy of consistency with state or federal address a unique character of the	i. statute. Il regulations.
Part II * Amendment Benefit:		
PROBLEM(S) ADDRESSED (Describe the This proposal provides some flexibility when the proposal provides and the proposal provides are provided by the proposal provides and the proposal provides are provided by the proposal provides and the proposal provides are provided by the proposal provides and the proposal provides are provided by the proposal provides and the proposal provides are provided by the provided by the proposal provided by the provide		ed code amendment): ment and ducts inside the conditioned space. In many
cases it is difficult to get all ductwork insic	de the conditioned space. For ex	ample, a short duct run may be necessary in an attic space
to connect a return grill to the furnace. Thi	s run is typically less than 10 fe	et in length.
PRIMARY REASON FOR AMENDMEN	T: (Describe how the amendm	ent meets one of the criteria listed above)
This amendment allows some flexibility to	for builders and HVAC installe	s to obtain the credit for High Efficiency HVAC
Distribution System. In addition, duct testi	ng would not be required.	
TYPE OF BENEFITS PROJECTED:	The allowance of a small amount	ount of ductwork in an unconditioned space will broaden
the use of this option increasing energy sav	vings throughout the state.	

☐ Alteration/Tenant Improvement/Repair
mily Commercial Industrial
ent
chitects, building designers, HVAC installers

Indicate if equipment, material or services required by this proposal are needed

Part IV ❖ Amendment Costs and Benefits

	Construction ¹		Enforcement ²		Operations & Maintenance ³				
Building Type	Costs	% impact ⁴	Benefits ⁵	Costs	% impact ⁴	Benefits ⁵	Costs	% impact ⁴	Benefits ⁵
Residential	0								
Single family									
Multi-family									
Commercial/Retail									
Industrial									
Institutional									

¹ \$ / square foot of floor area or other cost. Attach data. **Construction** costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to theowner/consumer.

² Cost per project plan. Attach data. **Enforcement** costs include governmental review of plans, field inspection, and other action required for enforcement.

³ Cost/benefits to building owner/tenants over the life of the project.

⁴ Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.

 $^{^{\}rm 5}$ Include measurable benefit to the user and/or public from Part II.